550, 262

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



1 (481) BRANCO IN BRANCO (101) BRANCO BRANCO (101) BRANCO (101) BRANCO (101) BRANCO (101) BRANCO (101) BRANCO (101)

(43) International Publication Date 7 October 2004 (07.10.2004)

PCT

(10) International Publication Number WO 2004/086392 A1

(51) International Patent Classification⁷: G06F 3/033

G11B 19/02,

(21) International Application Number:

PCT/EP2004/002561

- (22) International Filing Date: 12 March 2004 (12.03.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03006663.3

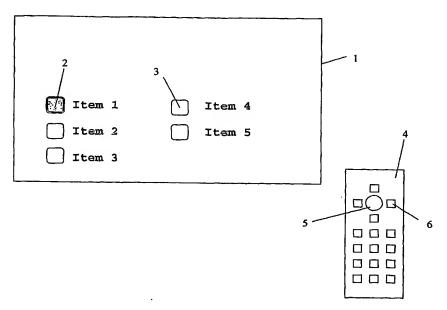
25 March 2003 (25.03.2003)

- (71) Applicant (for all designated States except US): THOM-SON LICENSING S.A. [FR/FR]; 46, Quai A. le Gallo, F-92100 Boulogne-Billancourt (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HÖRENTRUP, Jobst [DE/DE]; Gabelsbergerstr. 18, 30163 Hannover (DE). ADOLPH, Dirk [DE/DE]; Wallbrink 2, 30952 Ronnenberg (DE). OSTERMANN, Ralf [DE/DE]; Oberstr. 17, 30167 Hannover (DE). SCHILLER, Harald [DE/DE]; Apfelgarten 11, 30539 Hannover (DE). LI, Hui [DE/DE]; Haltenhoffstr. 221, 30419 Hannover (DE).

- (74) Agent: RITTNER, Karsten; Deutsche Thomson-Brandt GmbH, European Patent Operations, Karl-Wiechert-Allee 74, 30625 Hannover (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD FOR REPRESENTING ANIMATED MENU BUTTONS



(57) Abstract: Optical storage media often contain data structures for a menu suitable for selection of a title, a chapter, a parameter or others. Such menus usually comprise a number of buttons to be displayed, with each button having a state. Possible states of buttons are "unselected", "selected" or "activated". According to the invention, the representation of a menu button may vary, depending on its state. An image or an image sequence, e.g. cartoon, may be associated to a buttons state, providing user animation. Further, a sound or sound sequence, e.g. melody or click, may be associated to a buttons state, and may be played back when the button enters this state. A data structure is disclosed which allows storage of such menu data e.g. on a Blu-ray disc.



WO 2004/086392 A1



Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.